Interior Lighting Summary
2012 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1

| - | | | | | | |
|---|--|--|---|--|--|--|
| Project Info | Project Address | 23909 E. country Vista Dr. | Date 10/19/2015 | | | |
| Compliance forms do not | | Liberty Lake, WA. 99019 | For Building Department Use | | | |
| require a password to | Applicant Name: | | | | | |
| use. Instructional and | Applicant Name: Applicant Address: | Central Valley School District | | | | |
| calculating cells are write- | Applicant Phone: | 19307 E. Cataldo Ave., Spokane Valley, WA 99016 509-228-5400 | *************************************** | | | |
| | | | | | | |
| Project Descrip | tion —————— | ✓ New Building ☐ Addition ☐ Alteratio | n Plans Included | | | |
| Lighting Comp | liance Path | | al Building Performance g Performance then only LGT-CHK is required.) | | | |
| | Allowance lection required to lable LPA forms | Building Area Method Sparent | ce-By-Space Method | | | |
| Interior Lightin | g System | | | | | |
| Description | | | | | | |
| | | | | | | |
| Briefly describe lighting | | | | | | |
| system type and feature | ?S. | | | | | |
| | | | | | | |
| Additions and | Change of Spa | ace Use (C101.4.3 & C101.4.4) | | | | |
| Addition area | a or Change of Space | e Use area complies with all applicable provisions as stand | d alone project | | | |
| Addition area provisions pe | | isting building lighting systems to demonstrate compliand | e with all applicable | | | |
| allowed and | proposed (including | TG-INT-BLD) or Space-By-Space Method (LTG-INT-SPA) existing if applicable) lighting wattage of Addition or Char sioning of lighting controls per C405.13. | | | | |
| Alterations, Rei | novations and | Repairs (C101.4.3.1) | | | | |
| 60% or more | of luminaires in spac | e replaced | | | | |
| allowed wat | tage within the lightin | TG-INT-BLD) or Space-By-Space Method (LTG-INT-SPA g retrofit space in Maximum Allowed Wattage table and p and non-retrofit spaces shall be documented separately | roposed (including existing) lighting wattage in | | | |
| Less than 60° | % of luminaires in sp | ace replaced | | | | |
| Provide a separate Space-By-Space Method (LTG-INT-SPACE) Compliance Form for this retrofit area. Document existing total wattage within the lighting retrofit space in cell provided in the Maximum Allowed Wattage table. Document proposed (including existing) lighting wattage in the Proposed Wattage table. | | | | | | |
| Lamp and/or | Lamp and/or ballast replacement within existing luminaires only – existing total interior building wattage not increased | | | | | |
| New wiring in: | New wiring installed to serve added fixtures and/or fixtures relocated to new circuit | | | | | |
| Provide applicable manual lighting controls (C405.2.1), occupancy sensors (C405.2.2.2), daylight zone controls (C405.2.2.3), specific application controls (C405.2.3), and commissioning of lighting controls per C405.13 | | | | | | |
| ☐ New or move | New or moved lighting panel | | | | | |
| | Provide all applicable lighting controls as noted for New Wiring, automatic time switch controls (C405.2.2.1), and commissioning of lighting controls per C405.13. | | | | | |
| Space is reco | nfigured - luminaires | unchanged or moved only | | | | |
| Provide all a | pplicable lighting con | trols as noted for New Wiring and commissioning of lighti | ng controls per C405.13. | | | |
| No changes a | No changes are being made to the interior lighting and space use not changed. | | | | | |

Interior Lighting Summary - Building Area Method 2012 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1

| Project Address | 23909 E. country \ | /ista Dr. | | Date | 10/19/2015 |
|--|--|--|---|-------------------------|--------------------------------|
| Lighting Al | terations, Ren | ovations & Building Additi | ions | For Building Dep | artment Use |
| C Less than 6 | 0% O 60% or m | ore O Stand alone O Addition | 1 | | |
| combined with b. For retrofits and Maximum Allov existing builidn c. Document new d. If less than 60% | the overall existing bl d building additions, p wed Lighting table. If a g, include all applicab fixtures and all existi | n may comply as a stand alone project, or dg lighting to demonstrate compliance. Re rovide Building Area types and gross inter a building addition will comply as combined ee existing Building Area types and gross ing to remain fixtures in the Proposed Light will be replaced, use LTG-INT-SPACE form | efer to C101.4.3. Frior areas in the If with the overall Interior areas. Intig table. | | |
| | Location (plan #, | | Allowed | Gross Interior | Watts Allowed |
| Building Area* | room #, or ALL) | Area Description | Watts per ft ² | Area in ft ² | (watts/ft ² x area) |
| School/university | Main Level | Classroom, Gym and Support Spaces | 0.99 | 74349 | 73606 |
| | | | | | |
| ******* | | | | | |
| * Select Table | C405.5.2(1) Building | Area from drop down menu. | Total | 74349 | |

Proposed Lighting Wattage

| Building Arca* | Location (plan #, room #) | Fixture Description** | Number of Fixtures | Watts/ Fixture | Watts Proposed |
|-------------------|---------------------------|---------------------------------------|-----------------------|-------------------|-------------------|
| Building Area* | 100m #) | · · · · · · · · · · · · · · · · · · · | | 30 | 120 |
| School/university | | A03 | 4 | | |
| School/university | | A03F | 18 | 30 | 540 |
| School/university | | A04 | 18 | 25 | 450 |
| School/university | | A04F | 6 | 25 | 150 |
| School/university | | A06 | 15 | 47 | 705 |
| School/university | | B10 | 59 | 12 | 708 |
| School/university | | B15 | 37 | 19 | 703 |
| School/university | | B20 | 19 | 23 | 437 |
| School/university | | B21 | 5 | 14 | 70 |
| School/university | | B32 | 7 | 23 | 161 |
| School/university | | C24 | 53 | 28 | 1484 |
| School/university | | C54 | 5 | 27 | 135 |
| School/university | | D02-4 | 11 | 47 | 517 |
| School/university | | D02-12 | 12 | 141 | 1692 |
| School/university | | D04 | 3 | 18 | 54 |
| School/university | T | D06 | 8 | 28 | 224 |
| School/university | | D08 | 8 | 37 | 296 |
| School/university | | D10 | 3 | 47 | 141 |
| School/university | | D10F | 5 | 47 | 235 |
| School/university | | D12 | 5 | 55 | 275 |
| School/university | | D14 | 2 | 64 | 128 |
| School/university | | D16 | 2 | 74 | 148 |
| School/university | | D16F | 1 | 74 | 74 |
| School/university | | D24 | 24 | 29 | 696 |
| School/university | | D26 | 6 | 41 | 246 |
| School/university | | D28 | 16 | 58 | 928 |
| School/university | | D28D | 12 | 58 | 696 |
| School/university | | F01 | 6 | 4 | 24 |
| School/university | | F18 | 26 | 13 | 338 |
| School/university | | G01 | 26 | 192 | 4992 |
| School/university | | G02 | 4 | 241 | 964 |
| School/university | | R03 | 39 | 21 | 819 |
| School/university | | R04 | 15 | 21 | 315 |

| School/university | R13 | 18 | 38 | 684 |
|-------------------|-------|-----|-----|-------|
| School/university | R23 | 12 | 38 | 456 |
| School/university | R30 | 41 | 30 | 1230 |
| School/university | R40 | 371 | 41 | 15211 |
| School/university | T04 | 40 | 23 | 920 |
| School/university | TR24A | 2 | 440 | 880 |
| School/university | X01 | 27 | 3 | 81 |
| School/university | X02 | 2 | 3 | 6 |
| School/university | X03 | 3 | 3 | 9 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

^{*} Select Table C405.5.2(1) Building Area from drop down menu.

Compliance by Building Area

| | | Total Allowed | Total Proposed | Interior Lighting Power |
|-------------------|--|---------------|----------------|-------------------------|
| Building Area | Warnings | Watts | Watts | Allowance |
| School/university | Confirm all fixtures are reported under proposed lighting - low watts relative to maximum allowed. | 73606 | 38942 | COMPLIES |
| | | | | |
| | | | | |
| | | | | |

| - | | |
|-------|-------|-------|
| Total | 73606 | 38942 |
| 1 | | |

Notes

- 1. Proposed Wattage for each Building Area type shall not exceed the Allowed Wattage for that Building Area type. Trading wattage between Building Area types is not allowed under the Building Area Method compliance path.
- 2. Proposed fixtures must be listed in the building area in which they occur. Include ALL proposed lighting fixtures.
- 3. For proposed Fixture Description, indicate fixture type, lamp type (e.g. T-8), number of lamps in the fixture, and ballast type (if included). For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.
- 4. For proposed Watts/Fixture, use manufacturer's listed maximum input wattage of the fixture (not simply the lamp wattage) and other criteria as specified in Section C405.5.1. For line voltage track lighting, list the greater of actual luminaire wattage or length of track multiplied by 50, or as applicable, the wattage of current limiting devices or of the transformer. For low voltage track lighting list the transformer rated wattage.
- 5. For lighting equipment eligible for exemption per C405.5.1, note exception number and leave Watts/Fixture blank.
- 6. Document existing to remain fixtures in Proposed Lighting table in the same manner as new fixtures. Identify as existing in fixture description.

^{**} Include existing to remain lighting and exempt lighting equipment per notes below.

| Exterior Lighting | ng Sui | nmary | Andre Springer (1907) | | TG-EXI |
|--|-------------|--|--|---|--|
| | | Forms for Commercial Buildings including R2 | | R1 Date | Revised Jan 2014 10/19/2015 |
| Project Info | Project Add | lress: 23909 E. country Vista Dr. Liberty Lake, WA. 99019 | | For Building Department Use | |
| | | Liberty Lake, WA. 33013 | | . o, zanenig z spansni si | |
| | Applicant N | ame: Central Valley School Dis | trict | | |
| | Applicant A | ddr: 19307 E. Cataldo Ave., Sp | okane Valley, WA 9901 | € | |
| | Applicant P | hone: 509-228-5400 | | | |
| Project Description | | ✓ New Building Addition | on Alteration | Plans Inclu | ded |
| Lighting Zone As specified by jurisdiction. Zone selection required to enable LTG-EXT form | | ◯ Zone 1 ◯ Zone 2 | 2 Sone 3 | O Zone 4 | |
| Compliance Option | | Lighting Power Density Calculate | ılations 🔘 Total | Building Performance | |
| Building Grounds | | ✓ Efficacy > 60 lumens/W | Controlled by mo | tion sensor | |
| Applies to luminaires > 100 Wa | tts | Exemption (list) | | | |
| Exterior Lighting Alterations | | | he existing exterior lighti | ng | |
| | | New wiring installed to serve add | ded fixtures and/or fixture | es relocated to new cir | cuit |
| | | Provide applicable exterior lig | | | |
| Tradable Maximum | Allowed | Lighting Wattage | | Base Site Allowance: | 750 |
| Tradable Surfaces | | Surface Description | Allowed Watts per ft ² or per lf | Area (ft²), perimeter (If) or # of items | Allowed Watts x ft ² (or x lf) |
| Uncovered Parking and drives | PARKING LO | TS | 0.10 W/ft2 | 101052 | 10105 |
| Grounds Walkways <10 wide | | is any order of the control of the c | 0.8 W/LF | 10213 | 8170 |
| Grounds Walkways >10' wide | | | 0.16 W/ft2 | 100 | 16 |
| THE CONTRACTOR OF THE CONTRACT | | | | | |
| | | | | | |
| | | | | | |
| | | | Total All | owed Tradable Watts: | 18292 |
| Tradable Proposed L | ighting | Wattage (Use mfgr listed maximun | n input wattage for lumin | naire.) | |
| Tradable Surface | | Fixture Description | Number of Fixtures | Watts/ Fixture | Watts Proposed |
| Uncovered Parking and | s02 | | 5 | 130 | 650 |
| drives Uncovered Parking and | 503 | | 9 | 130 | 1170 |
| drives Uncovered Parking and | | | | | |
| drives Grounds Walkways >10 | S05 | | 9 | 130 | 1170 |
| wide | S11 | | 5 | 50 | 250 |
| Grounds Walkways <10 wide Grounds Walkways >10' | S13 | | 11 | 72 | 792 |
| wide | S20 | | 9 | 24 | 216 |
| Grounds Walkways <10 wide Uncovered Parking and | S21 | | 9 | 19 | 171 |
| drives | S23 | | 5 | 260 | 1300 |
| Total proposed tradable watts may not excewatts plus the base site allowance. Any bas tradable watts comply can be applied to indiv | | e site allowance not needed to make | Total Prop | osed Tradable Watts: | 5719 |
| Non-Tradable Maxin | num All | owed Lighting Wattage | Base Site A | llowance Remaining: | 750 |
| A AND A COMPANY OF THE STATE OF | | | Allowed Watts | Area (ft²), perimeter | Allowed Watts |
| Non-Tradable Surfaces | | Surface Description | per ft ² or per If | (If) or # of items | x ft ² (or x lf) |
| | | | | | |
| | | | | | |
| | L | | | | |
| Non-Tradable Propo | sed Ligh | ting Wattage | | | |

| Non-Tradable Surface | Fixture Description | Number of Fixtures | Watts/ Fixture | Watts Proposed |
|--|---|-----------------------|-----------------------|-------------------|
| | | | | |
| | | | | |
| n-tradable proposed watts may not | exceed allowed watts for any individual | Total excess | Non-Tradable watts: _ | 0 |
| surface unless the total excess watts for all non-tradable surfaces are less than the emaining site allowance. Site Allow | | Allowance Balance: | 750 | |

| No of a colombia | T : -1- 1: | |
|------------------|------------|--|
| lexterior | Lighting | |

COMPLIES WITH SITE ALLOWANCE

Motor, and Transformer Permit Documents Checklist

2012 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 10/19/2015 Date Project Address 23909 E. country Vista Dr. The following information is necessary to check a permit application for compliance with the lighting, motor, and transformer requirements in the Washington State Energy Code, Commercial Provisions. Location in **Building Department** Applicability Compliance information required in permit documents Documents Notes Code Section Component (yes,no,na) LIGHTING CONTROLS (Section C405.2) Indicate on plans the manual control type & locations served; Manual interior C405.2.1.1 Indicate of plans the 50% lighting load reduction method Elec/Mech. C405 2 1 2 lighting controls provided or identify exception taken Exterior/common. Indicate lighting system automatic shut-off capability - identify Corridor/custodian lighting zone areas served on plans; office Automatic time C405.2.2.1 switch controls and Yes Indicate locations of override switches on plans and the areas override switching served, include area sq. ft.; Indicate locations where automatic shutoff is provided by other methods (occupancy sensor, daylight controls, etc) Indicate on plans the locations served by occupancy sensors Classroom/ Office C405.2.2.2 Occupancy sensors Yes Daylight zones -Indicate vertical fenestration primary and secondary daylight Classroom/Offices Vertical fenestration zone areas on plans, include sq. ft.; Yes C405.2.2.3 and skylights Indicate skylight daylight zone areas on plans, include sq. ft. Indicate on plans the locations served by daylight zone controls; E2 Series Daylight zone C405.2.2.3.2 Yes controls Indicate in plans the lighting load reduction (dimming) method stepped or continuous dimming Specific application Indicate on plans the locations served by specific application Stage C405.2.3 lighting controls -Yes lighting controls General Indicate lighting control method for display and accent lighting, E2 Series and display case lighting; C405.2.3 -Display and accent Yes Indicate these fixtures are controlled independently from both Items 1&2 lighting general area lighting and other lighting applications within the same space Provide a lighting control device at each guest room entry for all C405.2.3 -Hotel/motel guest permanently installed fixtures in guest room; NA Item 3 rooms Indicated whether lighting control is manual or automatic Provide automatic shut-off vacancy controls for supplemental C405.2.3 -Supplemental task Classroom Yes task lighting, including under-shelf or under-cabinet lighting Item 4 lighting Identify eligible non-visual applications and method of lighting control; C405.2.3 -Lighting for non-NA Indicate these fixtures are controlled independently from both Item 5 visual applications general area lighting and other lighting applications within the same space Indicate lighting control method for lighting equipment for sale or demonstration; Lighting equipment C405.2.3 -NA for sale or Indicate these fixtures are controlled independently from both Item 6 demonstration general area lighting and other lighting applications within the same space If egress lighting power density is greater than 0.05W/ft2, **F2 Series** indicate method of automatic shut-off during unoccupied C405.2.3 -Means of egress Yes Item 7 lighting Identify on plans the egress fixtures that function as both normal and emergency means of egress illumination Provide vacancy device or timer to turn off fixtures within 15 Equip. C405.10 Cooler and freezer minutes of unoccupancy for cooler and freezer lighting fixtures Yes Manufacturer C405.11 lighting with lamp efficacy less than 40 lumens per watt Indicate on exterior lighting plans the automatic lighting control Exterior lighting Mini Panels Yes C405.2.4 method and locations served controls Exterior building Provide motion sensor controls for building grounds fixtures rated at greater than 100 watts with lamp efficacy less than 60 No C405.6.1 arounds liahtina lumens, or identify exception taken controls Identify applicable commissioning documentation requirements Specification per Section C408 or eligibility for exception; Lighting system Provide written procedures for functional testing of all automatic

controls and describe the expected system response;

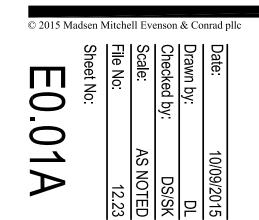
C408.3

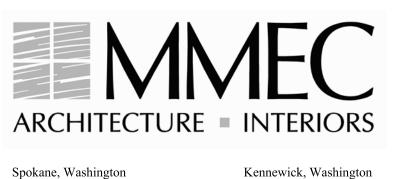
functional testing

Yes

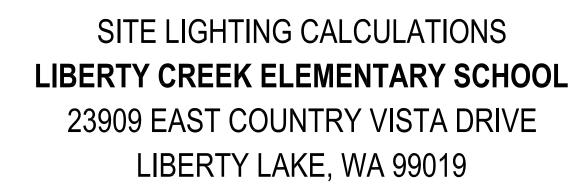
| | | | ansformer Permit Documents (| Checklist | |
|---------------------------|--|---|---|--------------------------|------------------------------|
| | <u>~~</u> | | for Commercial Buildings including R2 & R3 over 3 stories and all R1 | I _{Data} | Revised Jan 2014 |
| Project Addre | | 23909 E. country Vis | | Date | 10/19/2015 |
| | | necessary to check a code, Commercial Prov | permit application for compliance with the lighting, motor, and tran risions. | nsformer requirement | s in the |
| Applicability (yes,no,na) | Code Section | Component | Compliance information required in permit documents | Location in Documents | Building Department Notes |
| | | | Identify in construction documents the party responsible for functional testing of automatic lighting controls | | |
| INTERIOR | LIGHTING | POWER & EFFIC | CACY (Sections C405.5, C405.10, C405.11) | | |
| | | | Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; | | |
| Yes | C405.5.1 C405.5.1.1 Yes C405.5.1.2 | Total connected | Identify spaces eligible for lighting power exemption on plans and in compliance forms; | | |
| | C405.5.1.3 C405.5.1.4 | interior lighting power | Identify lighting equipment eligible for exemption in fixture schedule and in compliance forms; | | |
| | | | Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently | | |
| Yes | C405.4 | Exit signs | Provide exit sign types and rated watts per fixture in fixture schedule (maximum 5 watts per fixture) | | |
| No | C405.10 C405.11 | Cooler and freezer lighting | For lighting in walk-in coolers and freezers, and refrigerated warehouse coolers and freezers, provide rated lamp efficacy (in lumens per watt) in fixture schedule | | |
| | Lighting Pow | er Calculation - Indica | ate compliance path taken | | |
| Yes | C405.5.2 | Building Area Method | Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans | | |
| No | C405.5.2 | Space-By-Space Method | Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage. Identify locations of space types on plans, including retail display areas as applicable | | |
| EXTERIO | R LIGHTING | POWER & EFFI | CACY (Section C405.6) | | |
| | | Total connected | Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; | | |
| Yes | C405.6.2 | exterior lighting power | Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; | | |
| | | | Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting | | |
| Yes | Table C405.6.2(1) | Exterior lighting zone | Indicate building exterior lighting zone as defined by the AHJ | | |
| Yes | C405.6.1 | Exterior building grounds lighting | For building grounds fixtures rated at greater than 100 watts, provide rated lamp efficacy (in lumens per watt) in fixture schedule | | |
| Yes | C40562 I | Exterior lighting power calculations | Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed | | |
| MOTORS | & TRANSF | ORMERS (Section | ns C405.8, C405.9) | | |
| Yes | C405.8 | Electric Motors | For motors not part of an HVAC system, provide electric motor schedule on electrical plans with hp, rpm, and rated efficiency | | |
| Yes | C405.9 | Transformers | Provide distribution transformer schedule on electrical plans with transformer size and efficiency | | |

| If "no" is selected for any question, provide explanation | on: | |
|---|-----|--|
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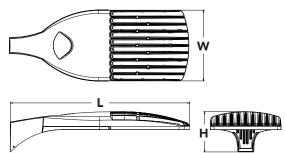




Specifications 1.2 ft² EPA: (0.11 m²) 33" Lenath: (83.8 cm) 13" Width:

7-1/2" Height: (19.0 cm)

Weight 27 lbs (max): (12.2 kg)



Catalog

Notes

Туре

S0X Series

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 -400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

(33.0 cm)

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

| DSX1LED | | | | | | |
|----------|---|---|---|---|--|---|
| Series | LEDs | Drive current | Color temperature | Distribution | Voltage | Mounting |
| OSX1 LED | Forward optics 30C 30 LEDs (one engine) 40C 40 LEDs (two engines) 60C 60 LEDs (two engines) Rotated optics¹ 60C 60 LEDs (two engines) | 530 530 mA 700 700 mA 1000 1000 mA (1 A) | 30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted 2 | T1SType I ShortTFTMForward ThrowT2SType II ShortMediumT2MType II MediumT5VSType V Very ShortT3SType II ShortT5SType V ShortT3MType II MediumT5MType V MediumT4MType IV MediumT5WType V Wide | MVOLT ³ 120 ³ 208 ³ 240 ³ 277 ³ 347 ⁴ 480 ⁴ | Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor 5 RPUMBA Round pole universal mounting adaptor 5 Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) 6 |

| Control o | otions | Other | options | Finish (reg | uired) | | |
|-------------------|--|---------|--|-------------|---------------------------------|--------|---------------------------|
| Shipped installed | | | | Ship | Shipped installed | | Dark bronze |
| PER | NEMA twist-lock receptacle only (no controls) 7 | PIRH | Motion sensor, 15-30' mounting height 13 | HS | House-side shield 16 | DBLXD | Black |
| PER5 | Five-wire receptacle only (no controls) 7,8 | BL30 | Bi-level switched dimming, 30% 12,14 | WTB | Utility terminal block 17 | DNAXD | Natural aluminum |
| PER7 | Seven-wire receptacle only (no controls) 7,8 | BL50 | Bi-level switched dimming, 50% 12,14 | SF | Single fuse (120, 277, 347V) 18 | DWHXD | White |
| DMG | 0-10V dimming driver (no controls) 9 | PNMTDD3 | Part night, dim till dawn 15 | DF | Double fuse (208, 240, 480V) 18 | DDBTXD | Textured dark bronze |
| DCR | Dimmable and controllable via ROAM® (no controls) 10 | PNMT5D3 | Part night, dim 5 hrs 15 | L90 | Left rotated optics 19 | DBLBXD | Textured black |
| DS | Dual switching 11,12 | PNMT6D3 | Part night, dim 6 hrs 15 | R90 | Right rotated optics 19 | DNATXD | Textured natural aluminum |
| PIR | Motion sensor, 8–15' mounting height 13 | PNMT7D3 | Part night, dim 7 hrs 15 | | | DWHGXD | Textured white |

Controls & Shields

DLL127F 1.5 JU DIT 347F 1 5 CIII III DLL480F 1.5 CUL JU SCU DSX1HS 30C U

Photocell - SSL twist-lock (120-277V) 20 Photocell - SSI twist-lock (347V) 20 Photocell - SSL twist-lock (480V) 20

Shorting cap 20 House-side shield for 30 LED unit DSX1HS 40C U House-side shield for 40 LED unit DSX1HS 60C U House-side shield for 60 LED unit Square and round pole universal PUMBA DDBXD U* mounting bracket (specify finish)

Mast arm mounting bracket adaptor KMA8 DDBXD U (specify finish) 6 For more control options, visit DTL and ROAM online

Rotated optics available with 60C only.

Rotated optics available with 60C only.

AMBPC only available with 530mA or 700mA.

MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify
120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
Not available with single board, 530mA product (30C 530 or 60C 530 DS). Not
available with BL30, BL50 or PNMT options.

Available as a separate combination accessory: PUMBA (finish) U; 1.5 G vibration
load rating per ANCI C136.31.

Must be ordered as a separate accessory; see Accessories information. For use
with 2-3/8" mast arm (not included).

Photocell ordered and shipped as a separate line item from Acuity Brands
Controls. See accessories. Not available with D5 option.

If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
DMG option for 347V or 480V requires 1000mA.

Divid plutin to 13-4 V 6-4004 requires rooming. Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices. net. N/A with DS, PIR, PIRH, PERS, PER7, BL30, BL50 or PNMT options.

- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH.
 Requires an additional switched circuit.
 RIR specifies the SensorSwitch SBGR-10-ODP control; PIRH specifies the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with DS, PER5 or PER7.
 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PERS, PER7 or PNMT options.
- Dimming driver standard, MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7, BL30 or BL50.

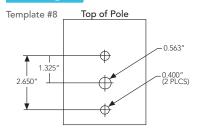
 Also available as a separate accessory; see Accessories information.

WTB not available with DS.

WYB not available with DS. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
Available with 60 LEDs (60C option) only.
Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls. 18



Drilling



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

 DM19AS
 Single unit
 DM29AS
 2 at 90° *

 DM28AS
 2 at 180°
 DM39AS
 3 at 90° *

 DM49AS
 4 at 90° *
 DM32AS
 3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools. *Round pole top must be 3.25" O.D. minimum. **For round pole mounting (RPA) only.

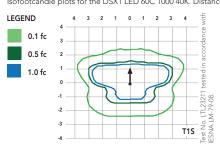
Tenon Mounting Slipfitter**

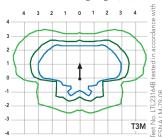
| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

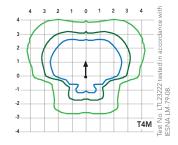
Photometric Diagrams

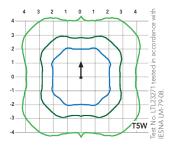
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').









Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 °C (32-104 °F).

| Amb | ient | Lumen Multiplier |
|------|-------|------------------|
| 0°C | 32°F | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 1.00 |
| 40°C | 104°F | 0.99 |

Electrical Load

| | | | | | Curre | nt (A) | | |
|-------------------|-----------------------|-----------------|------|------|-------|--------|------|------|
| Number of LEDs | Drive Current (mA) | System Watts | 120 | 208 | 240 | 277 | 347 | 480 |
| | 530 | 52 | 0.52 | 0.30 | 0.26 | 0.23 | | |
| 30 | 700 | 68 | 0.68 | 0.39 | 0.34 | 0.30 | 0.24 | 0.17 |
| | 1000 | 105 | 1.03 | 0.59 | 0.51 | 0.45 | 0.36 | 0.26 |
| | 530 | 68 | 0.67 | 0.39 | 0.34 | 0.29 | 0.23 | 0.17 |
| 40 | 700 | 89 | 0.89 | 0.51 | 0.44 | 0.38 | 0.31 | 0.22 |
| | 1000 | 138 | 1.35 | 0.78 | 0.67 | 0.58 | 0.47 | 0.34 |
| | 530 | 99 | 0.97 | 0.56 | 0.48 | 0.42 | 0.34 | 0.24 |
| 60 | 700 | 131 | 1.29 | 0.74 | 0.65 | 0.56 | 0.45 | 0.32 |
| | 1000 | 209 | 1.98 | 1.14 | 0.99 | 0.86 | 0.69 | 0.50 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 25,000 50,000 | | | | |
|-------------------|-------------------|--------|---------------|------|--|--|--|
| | DSX1 LED 60C 1000 | | | | | | |
| Lumen Maintenance | 1.0 | 0.95 | 0.93 | 0.88 | | | |
| Factor | DSX1 LED 60C 700 | | | | | | |
| | 1.0 | 0.99 | 0.98 | 0.96 | | | |

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| LEDs | Drive Current | System | Dist. | | | 30K K, 70 (| RI) | | | (4000 | 40K K 70 (| TRI) | | | | 50K K, 70 (| TRI) | | (Amh | A er Phos | MBPC | onvert | ted) |
|---|------------------|--------|------------|------------------|---|----------------|-----|----------|------------------|------------|---------------|------|------------|------------------|------------|----------------|------|------|----------------|--------------|------|----------|----------|
| LLUS | (mA) | Watts | Туре | Lumens | B | U | G | LPW | Lumens | (4000 B | U, 70 C | G | LPW | Lumens | (3000 B | I U | G | LPW | Lumens | В | U | G | LPW |
| | (IIIA) | | T1S | 5,697 | 1 | 0 | 1 | 84 | 7,127 | 2 | 0 | 2 | 105 | 7,180 | 2 | 0 | 2 | 106 | 4,561 | 1 | 0 | 1 | 67 |
| | | | T2S | 5,967 | 2 | 0 | 2 | 88 | 7,465 | 2 | 0 | 2 | 110 | 7,521 | 2 | 0 | 2 | 111 | 4,777 | 1 | 0 | 1 | 70 |
| | | | T2M | 5,773 | 1 | 0 | 2 | 85 | 7,222 | 2 | 0 | 2 | 106 | 7,276 | 2 | 0 | 2 | 107 | 4,622 | 1 | 0 | 2 | 68 |
| | | | T3S | 5,901 | 1 | 0 | 2 | 87 | 7,382 | 2 | 0 | 2 | 109 | 7,437 | 2 | 0 | 2 | 109 | 4,724 | 1 | 0 | 1 | 69 |
| | | | T3M | 5,872 | 1 | 0 | 2 | 86 | 7,346 | 2 | 0 | 2 | 108 | 7,401 | 2 | 0 | 2 | 109 | 4,701 | 1 | 0 | 2 | 69 |
| | 700 mA | 68 W | T4M | 5,882 | 1 | 0 | 2 | 87 | 7,359 | 2 | 0 | 2 | 108 | 7,414 | 2 | 0 | 2 | 109 | 4,709 | 1 | 0 | 2 | 69 |
| | | | TFTM | 5,793 | 1 | 0 | 2 | 85 | 7,247 | 1 | 0 | 2 | 107 | 7,301 | 1 | 0 | 2 | 107 | 4,638 | 1 | 0 | 2 | 68 |
| | | | T5VS | 6,148 | 2 | 0 | 0 | 90 | 7,691 | 3 | 0 | 1 | 113 | 7,749 | 3 | 0 | 1 | 114 | 4,922 | 2 | 0 | 0 | 72 |
| | | | T5S T5M | 6,074 6,150 | 3 | 0 | 1 | 90 | 7,598 7,694 | 3 | 0 | 2 | 112 | 7,655 7,752 | 3 | 0 | 2 | 113 | 4,863 4,924 | 3 | 0 | 1 | 72 |
| 30C | | | T5W | 5,979 | 3 | 0 | 1 | 88 | 7,694 | 3 | 0 | 2 | 110 | 7,732 | 3 | 0 | 2 | 1111 | 4,787 | 3 | 0 | 1 | 70 |
| (30 LEDs) | | | T1S | 7,913 | 2 | 0 | 2 | 75 | 9,899 | 2 | 0 | 2 | 94 | 9,973 | 2 | 0 | 2 | 95 | 1,7 07 | | | | |
| (************************************** | | | T2S | 8,288 | 2 | 0 | 2 | 79 | 10,368 | 2 | 0 | 2 | 99 | 10,446 | 2 | 0 | 2 | 99 | | | | | |
| | | | T2M | 8,019 | 2 | 0 | 2 | 76 | 10,031 | 2 | 0 | 3 | 96 | 10,106 | 2 | 0 | 3 | 96 | 1 | | | | |
| | | | T3S | 8,196 | 2 | 0 | 2 | 78 | 10,253 | 2 | 0 | 2 | 98 | 10,330 | 2 | 0 | 2 | 98 |] | | | | |
| | | | T3M | 8,156 | 2 | 0 | 2 | 78 | 10,202 | 2 | 0 | 2 | 97 | 10,279 | 2 | 0 | 2 | 98 | | | | | |
| | 1000 mA | 105 W | T4M | 8,170 | 2 | 0 | 2 | 78 | 10,220 | 2 | 0 | 2 | 97 | 10,297 | 2 | 0 | 2 | 98 | | | | | |
| | | | TFTM | 8,046 | 2 | 0 | 2 | 77 | 10,065 | 2 | 0 | 3 | 96 | 10,141 | 2 | 0 | 3 | 97 | | | | | |
| | | | T5VS | 8,539 | 3 | 0 | 1 | 81 | 10,682 | 3 | 0 | 1 | 102 | 10,762 | 3 | 0 | 1 | 102 | - | | | | |
| | | | T5S T5M | 8,436 | 3 | 0 | 2 | 80 | 10,553 | 3 | 0 | 1 | 101 | 10,632 | 3 | 0 | 2 | 101 | - | | | | |
| | | | T5W | 8,542 8,304 | 3 | 0 | 2 | 81 79 | 10,686 | 4 | 0 | 2 | 102 99 | 10,766 10,466 | 4 | 0 | 2 | 103 | - | | | | |
| | | | T1S | 7,511 | 2 | 0 | 2 | 84 | 9,396 | 2 | 0 | 2 | 106 | 9,467 | 2 | 0 | 2 | 90 | 6,014 | 1 | 0 | 1 | 68 |
| | | | T2S | 7,868 | 2 | 0 | 2 | 88 | 9,842 | 2 | 0 | 2 | 111 | 9,916 | 2 | 0 | 2 | 94 | 6,299 | 2 | 0 | 2 | 71 |
| | | | T2M | 7,612 | 2 | 0 | 2 | 86 | 9,522 | 2 | 0 | 3 | 107 | 9,594 | 2 | 0 | 3 | 91 | 6,094 | 2 | 0 | 2 | 68 |
| | | | T3S | 7,780 | 2 | 0 | 2 | 87 | 9,733 | 2 | 0 | 2 | 109 | 9,806 | 2 | 0 | 2 | 93 | 6,229 | 1 | 0 | 2 | 70 |
| | | | T3M | 7,742 | 2 | 0 | 2 | 87 | 9,685 | 2 | 0 | 2 | 109 | 9,758 | 2 | 0 | 2 | 93 | 6,198 | 2 | 0 | 2 | 70 |
| | 700 mA | 89 W | T4M | 7,756 | 2 | 0 | 2 | 87 | 9,702 | 2 | 0 | 2 | 109 | 9,775 | 2 | 0 | 2 | 93 | 6,209 | 1 | 0 | 2 | 70 |
| | | | TFTM | 7,638 | 2 | 0 | 2 | 86 | 9,555 | 2 | 0 | 2 | 107 | 9,627 | 2 | 0 | 2 | 92 | 6,115 | 1 | 0 | 2 | 69 |
| | | | T5VS | 8,106 | 3 | 0 | 1 | 91 | 10,140 | 3 | 0 | 1 | 114 | 10,216 | 3 | 0 | 1 | 97 | 6,490 | 2 | 0 | 0 | 73 |
| | | | T5S | 8,008 | 3 | 0 | 1 | 90 | 10,017 | 3 | 0 | 1 | 113 | 10,093 | 3 | 0 | 1 | 96 | 6,411 | 2 | 0 | 0 | 72 |
| 406 | | | T5M T5W | 8,109 | 3 | 0 | 2 | 91 | 10,144 | 4 | 0 | 2 | 114 | 10,220 | 4 | 0 | 2 | 97 | 6,492 | 3 | 0 | 2 | 73 |
| 40C (40 LEDs) | | | T1S | 7,883 10,384 | 2 | 0 | 2 | 89 75 | 9,861 12,990 | 3 | 0 | 3 | 94 | 9,936 13,088 | 3 | 0 | 3 | 95 | 6,311 | 3 | 0 | <u> </u> | |
| (10 2203) | | | T2S | 10,384 | 2 | 0 | 2 | 79 | 13,606 | 3 | 0 | 3 | 99 | 13,708 | 3 | 0 | 3 | 99 | 1 | | | | |
| | | | T2M | 10,523 | 2 | 0 | 3 | 76 | 13,164 | 3 | 0 | 3 | 95 | 13,263 | 3 | 0 | 3 | 96 | 1 | | | | |
| | | | T3S | 10,756 | 2 | 0 | 2 | 78 | 13,455 | 2 | 0 | 2 | 97 | 13,556 | 3 | 0 | 3 | 98 | 1 | | | | |
| | | | T3M | 10,703 | 2 | 0 | 2 | 78 | 13,389 | 3 | 0 | 3 | 97 | 13,490 | 3 | 0 | 3 | 98 |] | | | | |
| | 1000 mA | 138 W | T4M | 10,722 | 2 | 0 | 2 | 78 | 13,412 | 3 | 0 | 3 | 97 | 13,513 | 3 | 0 | 3 | 98 | | | | | |
| | | | TFTM | 10,559 | 2 | 0 | 3 | 77 | 13,209 | 2 | 0 | 3 | 96 | 13,308 | 2 | 0 | 3 | 96 | | | | | |
| | | | T5VS | 11,206 | 3 | 0 | 1 | 81 | 14,018 | 4 | 0 | 1 | 102 | 14,124 | 4 | 0 | 1 | 102 | | | | | |
| | | | TSS | 11,070 | 3 | 0 | 1 | 80 | 13,848 | 3 | 0 | 1 | 100 | 13,953 | 3 | 0 | 1 | 101 | | | | | |
| | | | T5M T5W | 11,210 | 4 | 0 | 2 | 81 79 | 14,023 | 4 | 0 | 2 | 102 99 | 14,129 | 4 | 0 | 2 | 102 | - | | | | |
| | | | T1S | 10,898 11,182 | 2 | 0 | 2 | 81 | 13,633 13,988 | 3 | 0 | 3 | 101 | 13,735 14,093 | 3 | 0 | 3 | 100 | 8,952 | 2 | 0 | 2 | 68 |
| | | | T2S | 11,712 | 3 | 0 | 3 | 85 | 14,651 | 3 | 0 | 3 | 106 | 14,761 | 3 | 0 | 3 | 107 | 9,377 | 2 | 0 | 2 | 72 |
| | | | T2M | 11,332 | 2 | 0 | 3 | 82 | 14,175 | 3 | 0 | 3 | 103 | 14,282 | 3 | 0 | 3 | 103 | 9,072 | 2 | 0 | 2 | 69 |
| | | | T3S | 11,582 | 2 | 0 | 2 | 84 | 14,489 | 3 | 0 | 3 | 105 | 14,598 | 3 | 0 | 3 | 106 | 9,273 | 2 | 0 | 2 | 71 |
| | | | T3M | 11,525 | 2 | 0 | 2 | 84 | 14,418 | 3 | 0 | 3 | 104 | 14,526 | 3 | 0 | 3 | 105 | 9,227 | 2 | 0 | 2 | 70 |
| | 700 mA | 131 W | T4M | 11,546 | 2 | 0 | 2 | 84 | 14,443 | 3 | 0 | 3 | 105 | 14,552 | 3 | 0 | 3 | 105 | 9,243 | 2 | 0 | 2 | 71 |
| | | | TFTM | 11,370 | 2 | 0 | 3 | 82 | 14,224 | 2 | 0 | 3 | 103 | 14,331 | 2 | 0 | 3 | 104 | 9,103 | 2 | 0 | 2 | 69 |
| | | | T5VS | 12,067 | 3 | 0 | 1 | 87 | 15,095 | 4 | 0 | 1 | 109 | 15,209 | 4 | 0 | 1 | 110 | 9,661 | 3 | 0 | 1 | 74 |
| | | | T5S | 11,921 | 3 | 0 | 1 | 86 | 14,913 | 4 | 0 | 1 | 108 | 15,025 | 4 | 0 | 1 | 109 | 9,544 | 3 | 0 | 1 | 73 |
| 600 | | | T5M T5W | 12,071 11,735 | 4 | 0 | 2 | 87 85 | 15,101 14,680 | 4 | 0 | 2 | 109 106 | 15,214 14,791 | 4 | 0 | 2 | 110 | 9,665 9,395 | 3 | 0 | 2 | 74 72 |
| 60C (60 LEDs) | | | T1S | 15,307 | 3 | 0 | 3 | 73 | 19,148 | 3 | 0 | 3 | 92 | 19,292 | 3 | 0 | 3 | 92 | 9,393 | 4 | 0 | | 12 |
| (2255) | | | T2S | 16,033 | 3 | 0 | 3 | 77 | 20,056 | 3 | 0 | 3 | 96 | 20,207 | 3 | 0 | 3 | 97 | | | | | |
| | | | T2M | 15,512 | 3 | 0 | 3 | 74 | 19,405 | 3 | 0 | 3 | 93 | 19,551 | 3 | 0 | 3 | 94 | | | | | |
| | | | T3S | 15,855 | 3 | 0 | 3 | 76 | 19,834 | 3 | 0 | 3 | 95 | 19,983 | 3 | 0 | 3 | 96 | | | | | |
| | | | T3M | 15,777 | 3 | 0 | 3 | 75 | 19,736 | 3 | 0 | 4 | 94 | 19,885 | 3 | 0 | 4 | 95 | | | | | |
| | 1000 mA | 209 W | T4M | 15,805 | 3 | 0 | 3 | 76 | 19,771 | 3 | 0 | 4 | 95 | 19,920 | 3 | 0 | 4 | 95 | | | | | |
| | | | TFTM | 15,565 | 3 | 0 | 3 | 74 | 19,471 | 3 | 0 | 4 | 93 | 19,617 | 3 | 0 | 4 | 94 | | | | | |
| | | | T5VS | 16,519 | 4 | 0 | 1 | 79 | 20,664 | 4 | 0 | 1 | 99 | 20,820 | 4 | 0 | 1 | 100 | - | | | | |
| | | | T5S | 16,319 | 4 | 0 | 1 | 78 | 20,414 | 4 | 0 | 1 | 98 | 20,567 | 4 | 0 | 1 | 98 | | | | | |
| | | | T5M T5W | 16,525 16,065 | 4 | 0 | 3 | 79 77 | 20,672 | 5 | 0 | 3 | 99 | 20,827 | 5 | 0 | 3 | 97 | | | | | |
| | | | 1344 | 10,000 | 4 | U |) | // | 20,070 | J | U |) | - 20 | 20,247 | ر | U |) |)/ | | | | | |



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.2 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000 K (70 minimum CRI) or optional 3000 K (80 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an

expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERISTM series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



SENTINALL™

S1414D SERIES

PRODUCT FEATURES:

- » Surface ceiling mount 14"W×14"W×5"D
- » 18-gauge cold rolled steel baseplate
- » UV-stabilized, injection molded polycarbonate lens
- » Stainless steel Torx® fasteners



| PROJECT INFORMATION | | | | | | | |
|---------------------|--|--|--|--|--|--|--|
| Job Name | | | | | | | |
| Fixture Type | | | | | | | |
| Catalog Number | | | | | | | |
| Approved by | | | | | | | |

TYPE S11

CLASSROOM WING ENTRY SOFFITS

Accessories ASA

SA

9500

Aluminum Surface Adapter

Surface Adapter (CRS)

Torx® Screwdriver

† UV shielding lamp supplied * See Lamp Type for availability

SPECIFICATIONS

BASEPLATE: 18-gauge CRS. Baseplate provided with four-point mounting holes, one wireway hole and junction box mounting keyholes – see Cross Section/Details. White TGIC polyester powder coat — 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. See Options or Accessories for marine grade aluminum baseplate (AL) and/or CRS or aluminum surface adapter.

LENS/HOUSING: One-piece wraparound lens/housing (UV-stabilized, high impact, virgin injection molded polycarbonate). High efficiency Pearlescent or Clear Prismatic lens. Housing available in matte white or dark bronze finish.

REFLECTOR: Compact Fluorescent/LED: Full reflector/wire cover — white finished aluminum (92% reflectivity). HID: Full reflector/wire cover. High efficiency textured aluminum.

GASKET: Die-cut closed cell neoprene gasket seals lens/housing to mounting surface.

HARDWARE: Two stainless steel Torx® with center pin fasteners secure lens/housing to baseplate.

ELECTRICAL: Fluorescent electronic 120/277/347 and multi voltage ballasts high power factor (<10% THD). HPS: Normal power factor standard. See Options for high power factor ballasts. LED: Replaceable high-brightness ANSI 3500K (80 CRI min.), 4000K (70 CRI min.), 5000K (70 CRI min.) or 5700K (70 CRI min.) white LED array. 120-277VAC, high power factor electronic driver. LED dimming capability controlled through compatible 0-10V dimmer (supplied by others); 10-100% dimming range. See options for higher CRI lamp availability. Metal Halide: High power

INSTALLATION: Standard four-point mounting required for Peace of Mind Guarantee®.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

WARRANTY: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LED lamps and driver for defects resulting in a fixture lumen depreciation of

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory for Wet Location - covered ceiling mount.









70 Watt HPS (1/NPF/120,277/-40°F)

ORDERING INFORMATION (Ex: S1414D-C-DB-50L40K-1-DV)

Lens Type Finish Lamp Type Lamp Qty Voltage Options Accessories S1414D

ΕĹ

FS

| Lens Typ | e | Lamp | |
|------------------|-----------------|-----------|--------------------------------------|
| C | Clear Prismatic | (Qty/Ball | ast/Volt./Starting Temp) |
| P | Pearlescent | 50L35K | 50W 3500K LED (1/DCC/120-277V/-40°F) |
| | | 50L40K | 50W 4000K LED (1/DCC/120-277V/-40°F) |
| Finish | | 50L50K | 50W 5000K LED (1/DCC/120-277V/-40°F) |
| <mark>D</mark> B | Dark Bronze | 50L57K | 50W 5700K LED (1/DCC/120-277V/-40°F) |
| MW | Matte White | 7 | 7 Watt Twin (1,2,3/MB/120,277/0°F) |
| | | 9 | 9 Watt Twin (1,2,3/MB/120,277/0°F) |
| | | 13 | 13 Watt Twin (1,2,3/MB/120,277/32°F) |
| | | 13Q | 13 Watt Quad (1,2/RS/120,277/0°F) |
| | | 18Q | 18 Watt Quad (1,2/RS/120,277/0°F) |
| | | 26Q | 26 Watt Quad (1,2/RS/120,277/0°F) |
| | | 28D | 28 Watt 2D (1/RS/120,277/0°F) |
| | | 38D | 38 Watt 2D (1/RS/120,277/0°F) |
| | | 32P | 32 Watt PLT (1,2/RS/120,277/0°F) |
| | | 42P | 42 Watt PLT (1/RS/120,277/0°F) |
| | | 35S | 35 Watt HPS (1/NPF/120,277/-40°F) |
| | | 50M† | 50 Watt MH (1/HPF/120,277/-20°F) |
| | | 50S | 50 Watt HPS (1/NPF/120,277/-40°F) |
| | | | |

70S

| Lamp Qu | uantity * |
|---------|-------------|
| 1 | One Lamp |
| 2 | Two Lamps |
| 3 | Three Lamps |
| | |
| Voltage | |
| 120 | 120 Volts |
| 277 | 277 Volts |
| DV | 120-277 Vol |

120-277 Volts, electronic ballasts or LED only Options

One-Lamp Indoor Battery Pack (32°F) (n/a with HID or LED Lamp) 10KV IEEE C62.41.2 C High Surge Protector (LED only) Marine Grade Aluminum Baseplate ΑL

High Power Factor Ballast (HPS only) HPF R80 Minimum 80 CRI (4000K LED only) Retrofit Wiring Kit - Medium Base Socket (9143) **RWK**

(120 Volt only)

Single Fuse & Holder



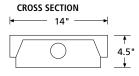


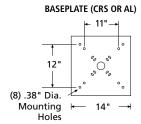
F: 847-360-1781

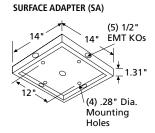
SENTINALL™

S1414D SERIES

DIMENSIONAL DATA









F: 847-360-1781



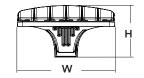
D-Series Size 0 LED Area Luminaire

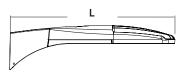




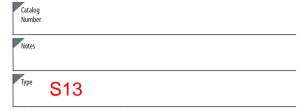
Specifications

| EPA: | (.07 m ²) |
|------------------|-----------------------|
| Length: | 26" (66.0 cm) |
| Width: | 13" (33.0 cm) |
| Height: | 7" (17.8 cm) |
| Weight (max): | 16 lbs (7.25 kg) |





PEDESTRIAN LIGHTING



Introduction

The modern styling of the D-Series is striking vet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED 40C 1000 40K T3M MVOLT SPA DDBXD

| DSX0 LED | | | | | | | | | | |
|----------|--|--|--|--|--|---|--|--|--|--|
| Series | LEDs | Drive current | Color temperature | Distribution | Voltage | Mounting | | | | |
| DSX0 LED | Forward optics 20C 20 LEDs (one engine) 40C 40 LEDs (two engines) Rotated optics¹ 30C 30 LEDs (one engine) | 530 530 mA 700 700 mA 1000 1000 mA (1 A) ² | 30K 3000 K 80 CRI min.) 40K 4000 K (70 CRI min.) 50K 5000 K (70 CRI) AMBPC Amber phosphor converted ³ | T1S Type I short TFTM Forward throw medium T2S Type II short T5VS Type V very short T3M Type III short T5S Type V short T3M Type III medium T5M Type V medium T4M Type IV medium T5W Type V wide | MVOLT ⁴ 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ⁵ 480 ⁵ | Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁶ RPUMBA Round pole universal mounting adaptor ⁶ Shipped separately ⁷ KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) | | | | |

| Control op | tions | | Other | options | Finish (reg | Finish (required) | | |
|-----------------------------------|--|--|---|---|---|---|--|--|
| Shipped PER PER5 PER7 DMG DCR PIR | installed NEMA twist-lock receptacle only (no controls) ⁸ Five-wire receptacle only (no controls) ^{8,9} Seven-wire receptacle only (no controls) ^{8,9} 0-10V dimming driver (no controls) ¹⁰ Dimmable and controllable via ROAM® (no controls) ¹¹ Motion sensor, 8-15' mounting height ¹² Motion sensor, 15-30' mounting height ¹² | BL30 BL50 PNMTDD3 PNMT5D3 PNMT6D3 PNMT7D3 | Bi-level switched dimming, 30% ^{13, 14} Bi-level switched dimming, 50% ^{13, 14} Part night, dim till dawn ¹⁵ Part night, dim 5 hrs ¹⁵ Part night, dim 6 hrs ¹⁵ Part night, dim 7 hrs ¹⁵ | Ship HS SF DF L90 R90 DDL | House-side shield ¹⁶ Single fuse (120, 277, 347V) ¹⁷ Double fuse (208, 240, 480V) ¹⁷ Left rotated optics ¹ Right rotated optics ¹ Diffused drop lens ¹⁶ | DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD | Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white | |

Accessories

Controls & Shields

DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) 18 DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) 18 DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) 18 Shorting cap 18 DSX0HS 20C U House-side shield for 20 LED unit 16

House-side shield for 30 LED unit 16 House-side shield for 40 LED unit 16 Diffused drop lens (polycarbonate) 16 Square and round pole universal mounting bracket adaptor (specify finish) Mast arm mounting bracket adaptor (specify finish) 7

KMA8 DDBXD U

For more control options, visit DTL and ROAM online

PUMBA DDBXD U*

DSX0HS 30C U

DSX0HS 40C U

DSX0DDI II

- $30\ \text{LEDs}\ (30\ \text{C}\ \text{option})$ and rotated options (L90 or R90) only available together.
- 1000mA not available with AMBPC
- 1000mA not available with 530mA or 700mA.
 MMBPC only available with 530mA or 700mA.
 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
 Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (20C 530 or 30C 530). Not available with BL30, BL50 or PMMT options.

 Available as a separate combination accessory: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories.

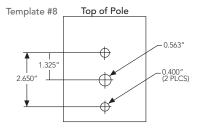
 If ROAM® node required, it must be ordered and shipped as a separate
- line item from Acuity Brands Controls. Not available with DCR.

 10 DMG option for 347V or 480V requires 1000mA.

- 11 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with PIR, PIRR, PERS, PERT, BL30, BL50 or PNMT options
- rSwitch SBGR-10-ODP control; PIRH specifies the PIR specifies the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guice Dimming driver standard. Not available with PER5 or PER7. Requires an additional switched circuit.
- 14 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PERS, PER7 or PNMT options.
 15 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PERS, PER7, BL30 or BL50.
- Also available as a separate accessory; see Accessories information.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.



Drilling



DSXO shares a unique drilling pattern with the AERIS $^{\rm TM}$ family. Specify this drilling pattern when specifying poles, per the table below.

 DM19AS
 Single unit
 DM29AS
 2 at 90° *

 DM28AS
 2 at 180°
 DM39AS
 3 at 90° *

 DM49AS
 4 at 90° *
 DM32AS
 3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

*Round pole top must be 3.25" 0.0. minimum.

**For round pole mounting (RPA) only.

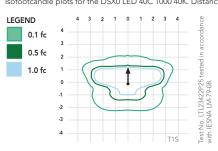
Tenon Mounting Slipfitter**

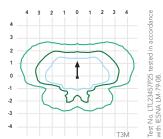
| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

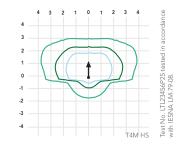
Photometric Diagrams

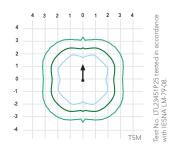
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').









Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 °C (32-104 °F).

| Amb | ient | Lumen Multiplier |
|------|-------|------------------|
| 0°C | 32°F | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 1.00 |
| 40°C | 104°F | 0.99 |

Electrical Load

| | | | | | Curre | nt (A) | | |
|-------------------|-----------------------|-----------------|------|------|-------|--------|------|------|
| Number of LEDs | Drive Current (mA) | System Watts | 120 | 208 | 240 | 277 | 347 | 480 |
| | 530 | 35 | 0.34 | 0.22 | 0.21 | 0.20 | | |
| 20C | 700 | 45 | 0.47 | 0.28 | 0.24 | 0.22 | 0.18 | 0.14 |
| | 1000 | 72 | 0.76 | 0.45 | 0.39 | 0.36 | 0.36 | 0.26 |
| | 530 | 52 | 0.51 | 0.31 | 0.28 | 0.25 | | |
| 30C | 700 | 70 | 0.72 | 0.43 | 0.37 | 0.34 | 0.25 | 0.19 |
| | 1000 | 104 | 1.11 | 0.64 | 0.56 | 0.49 | 0.47 | 0.34 |
| | 530 | 68 | 0.71 | 0.41 | 0.36 | 0.33 | 0.25 | 0.19 |
| 40C | 700 | 91 | 0.94 | 0.55 | 0.48 | 0.42 | 0.33 | 0.24 |
| | 1000 | 138 | 1.45 | 0.84 | 0.73 | 0.64 | 0.69 | 0.50 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 | | | | | | | | | |
|-------------------|---|-------------------|----------|---------|--|--|--|--|--|--|--|--|--|
| | | DSX0 LED 20C 1000 | | | | | | | | | | | |
| | 1 | 0.97 | 0.94 | 0.90 | | | | | | | | | |
| Lumen Maintenance | | DSX0 LED | 40C 1000 | | | | | | | | | | |
| Factor | 1 | 0.94 | 0.90 | 0.84 | | | | | | | | | |
| | | DSX0 LED | 40C 700 | | | | | | | | | | |
| | 1 | 0.99 | 0.98 | 0.96 | | | | | | | | | |

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward | Optics | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|--------|--------------|------------------|------------|---------|-----------|----------|------------------|------------|---------|-----------|------------|------------------|------------|---------|--------------|------------|----------------|--------------|-------------|--------------|------------|
| | Drive | System | Dist. | | | 30K | | | | | 40K | | | | | 50K | | | | | MBPC | | |
| LEDs | Current (mA) | Watts | Туре | Lumens | (3000 B | K, 70 C | .RI) G | LPW | Lumens | (4000 B | K, 70 (| .KI) G | LPW | Lumens | (5000 B | K, 70 (| CRI) G | LPW | (Amb | er Phos B | phor C U | onverte G | ed) LPW |
| | (IIIA) | | T1S | 3,174 | 1 | 0 | 1 | 91 | 3,971 | 1 | 0 | 1 | 113 | 4,001 | 1 | 0 | 1 | 114 | 2,541 | 1 | 0 | 1 | 73 |
| | | | T2S | 3,234 | 1 | 0 | 1 | 92 | 4,045 | 1 | 0 | 1 | 116 | 4,075 | 1 | 0 | 1 | 116 | 2,589 | 1 | 0 | 1 | 74 |
| | | | T2M | 3,171 | 1 | 0 | 1 | 91 | 3,967 | 1 | 0 | 1 | 113 | 3,997 | 1 | 0 | 1 | 114 | 2,539 | 1 | 0 | 1 | 73 |
| | | | T3S T3M | 3,195 3,226 | 1 | 0 | 1 | 91 92 | 3,997 4,036 | 1 | 0 | 1 | 114 | 4,027 4,066 | 1 | 0 | 1 | 115 116 | 2,558 2,583 | 1 | 0 | 1 | 73 74 |
| | 530 mA | 35 W | T4M | 3,210 | 1 | 0 | 1 | 92 | 4,015 | 1 | 0 | 1 | 115 | 4,045 | 1 | 0 | 1 | 116 | 2,570 | 1 | 0 | 1 | 73 |
| | | | TFTM | 3,173 | 1 | 0 | 1 | 91 | 3,969 | 1 | 0 | 2 | 113 | 3,999 | 1 | 0 | 2 | 114 | 2,540 | 1 | 0 | 1 | 73 |
| | | | T5VS | 3,310 | 2 | 0 | 0 | 95 | 4,140 | 2 | 0 | 0 | 118 | 4,172 | 2 | 0 | 0 | 119 | 2,650 | 1 | 0 | 0 | 76 |
| | | | T5S T5M | 3,360 3,320 | 2 | 0 | 1 | 96 95 | 4,203 4,153 | 3 | 0 | 1 | 120 119 | 4,235 4,184 | 3 | 0 | 1 | 121 120 | 2,690 2,658 | 2 | 0 | 0 | 77 76 |
| | | | T5W | 3,327 | 3 | 0 | 1 | 95 | 4,161 | 3 | 0 | 1 | 119 | 4,193 | 3 | 0 | 1 | 120 | 2,663 | 2 | 0 | 1 | 76 |
| | | | T1S | 3,927 | 1 | 0 | 1 | 87 | 4,913 | 1 | 0 | 1 | 109 | 4,950 | 1 | 0 | 1 | 110 | 3,144 | 1 | 0 | 1 | 70 |
| | | | T2S | 4,000 | 1 | 0 | 1 | 89 | 5,004 | 1 | 0 | 1 | 111 | 5,042 | 1 | 0 | 1 | 112 | 3,203 | 1 | 0 | 1 | 71 70 |
| | | | T2M T3S | 3,924 3,953 | 1 | 0 | 1 | 87 88 | 4,908 4,945 | 1 | 0 | 1 | 109 | 4,945 4,982 | 1 | 0 | 1 | 110 111 | 3,141 3,165 | 1 | 0 | 1 | 70 |
| 200 | | | T3M | 3,991 | 1 | 0 | 1 | 89 | 4,994 | 1 | 0 | 2 | 111 | 5,031 | 1 | 0 | 2 | 112 | 3,196 | 1 | 0 | 1 | 71 |
| 20C (20 LEDs) | 700 mA | 45 W | T4M | 3,971 | 1 | 0 | 1 | 88 | 4,967 | 1 | 0 | 2 | 110 | 5,005 | 1 | 0 | 2 | 111 | 3,179 | 1 | 0 | 1 | 71 |
| (20 2203) | | | TFTM | 3,925 | 1 | 0 | 2 | 87 | 4,910 | 1 | 0 | 2 | 109 | 4,947 | 1 | 0 | 2 | 110 | 3,143 | 1 | 0 | 1 | 70 |
| | | | T5VS T5S | 4,095 4,157 | 2 | 0 | 0 | 91 92 | 5,122 5,200 | 2 | 0 | 0 | 114 | 5,161 5,239 | 2 | 0 | 0 | 115 116 | 3,278 3,328 | 2 | 0 | 0 | 73 74 |
| | | | T5M | 4,107 | 3 | 0 | 1 | 91 | 5,138 | 3 | 0 | 1 | 114 | 5,177 | 3 | 0 | 1 | 115 | 3,288 | 2 | 0 | 1 | 73 |
| | | | T5W | 4,116 | 3 | 0 | 1 | 91 | 5,148 | 3 | 0 | 1 | 114 | 5,187 | 3 | 0 | 1 | 115 | 3,295 | 2 | 0 | 1 | 73 |
| | | | T1S | 5,387 | 1 | 0 | 1 | 75 | 6,739 | 2 | 0 | 2 | 94 | 6,790 | 2 | 0 | 2 | 94 | | | | | |
| | | | T2S T2M | 5,488 5,382 | 1 | 0 | 2 | 76 75 | 6,865 6,733 | 2 | 0 | 2 | 95 94 | 6,917 6,784 | 2 | 0 | 2 | 96 94 | - | | | | |
| | | | T3S | 5,423 | 1 | 0 | 1 | 75 | 6,784 | 2 | 0 | 2 | 94 | 6,835 | 2 | 0 | 2 | 95 | - | | | | |
| | | | T3M | 5,475 | 1 | 0 | 2 | 76 | 6,850 | 2 | 0 | 2 | 95 | 6,901 | 2 | 0 | 2 | 96 | | | | | |
| | 1000 mA | 72 W | T4M | 5,447 | 1 | 0 | 2 | 76 | 6,814 | 2 | 0 | 2 | 95 | 6,866 | 2 | 0 | 2 | 95 | | | | | |
| | | | TFTM T5VS | 5,385 | 1 | 0 | 0 | 75 78 | 6,736 | 3 | 0 | 0 | 94 | 6,787 | 3 | 0 | 0 | 94 | | | | | |
| | | | T5S | 5,617 5,702 | 2 | 0 | 0 | 79 | 7,027 7,133 | 2 | 0 | 0 | 99 | 7,080 7,187 | 2 | 0 | 0 | 100 | - | | | | |
| | | | T5M | 5,634 | 3 | 0 | 1 | 78 | 7,048 | 3 | 0 | 1 | 98 | 7,101 | 3 | 0 | 1 | 99 | | | | | |
| | | | T5W | 5,646 | 3 | 0 | 1 | 78 | 7,063 | 3 | 0 | 2 | 98 | 7,116 | 3 | 0 | 2 | 99 | | | | | |
| | | | T1S T2S | 6,093 6,207 | 2 | 0 | 2 | 90 | 7,622 7,764 | 2 | 0 | 2 | 112 | 7,679 7,823 | 2 | 0 | 2 | 113 | 4,878 4,969 | 1 | 0 | 1 | 72 73 |
| | | | T2M | 6,087 | 2 | 0 | 2 | 90 | 7,615 | 2 | 0 | 2 | 112 | 7,672 | 2 | 0 | 2 | 113 | 4,874 | 1 | 0 | 1 | 72 |
| | | | T3S | 6,133 | 1 | 0 | 2 | 90 | 7,672 | 2 | 0 | 2 | 113 | 7,730 | 2 | 0 | 2 | 114 | 4,910 | 1 | 0 | 1 | 72 |
| | 530 4 | 60111 | T3M | 6,193 | 2 | 0 | 2 | 91 | 7,747 | 2 | 0 | 2 | 114 | 7,805 | 2 | 0 | 2 | 115 | 4,958 | 1 | 0 | 2 | 73 |
| | 530 mA | 68 W | T4M TFTM | 6,161 6,090 | 1 | 0 | 2 | 91 | 7,707 7,618 | 2 | 0 | 2 | 113 | 7,765 7,676 | 2 | 0 | 2 | 114 | 4,932 4,876 | 1 | 0 | 2 | 73 72 |
| | | | T5VS | 6,353 | 2 | 0 | 0 | 93 | 7,947 | 3 | 0 | 0 | 117 | 8,007 | 3 | 0 | 0 | 118 | 5,086 | 2 | 0 | 0 | 75 |
| | | | T5S | 6,449 | 2 | 0 | 0 | 95 | 8,068 | 3 | 0 | 1 | 119 | 8,128 | 3 | 0 | 1 | 120 | 5,163 | 2 | 0 | 0 | 76 |
| | | | T5M | 6,372 | 3 | 0 | 1 | 94 | 7,971 | 3 | 0 | 2 | 117 | 8,031 | 3 | 0 | 2 | 118 | 5,102 | 3 | 0 | 1 | 75 |
| | | | T5W T1S | 6,385 7,752 | 2 | 0 | 2 | 94 85 | 7,988 9,697 | 2 | 0 | 2 | 117 | 8,048 9,770 | 2 | 0 | 2 | 118 | 5,112 6,206 | 2 | 0 | 2 | 75 68 |
| | | | T2S | 7,897 | 2 | 0 | 2 | 87 | 9,878 | 2 | 0 | 2 | 109 | 9,953 | 2 | 0 | 2 | 109 | 6,322 | 2 | 0 | 2 | 69 |
| | | | T2M | 7,745 | 2 | 0 | 2 | 85 | 9,688 | 2 | 0 | 2 | 106 | 9,761 | 2 | 0 | 2 | 107 | 6,201 | 2 | 0 | 2 | 68 |
| | | | T3S | 7,803 | 2 | 0 | 2 | 86 | 9,761 | 2 | 0 | 2 | 107 | 9,834 | 2 | 0 | 2 | 108 | 6,247 | 1 | 0 | 2 | 69 |
| 40C | 700 mA | 91 W | T3M T4M | 7,879 7,838 | 2 | 0 | 2 | 87 86 | 9,856 9,805 | 2 | 0 | 2 | 108 | 9,930 9,879 | 2 | 0 | 2 | 109 | 6,308 6,275 | 1 | 0 | 2 | 69 69 |
| (40 LEDs) | 70011111 | 7111 | TFTM | 7,748 | 2 | 0 | 2 | 85 | 9,693 | 2 | 0 | 3 | 107 | 9,765 | 2 | 0 | 3 | 107 | 6,203 | 1 | 0 | 2 | 68 |
| | | | T5VS | 8,083 | 3 | 0 | 0 | 89 | 10,111 | 3 | 0 | 1 | 111 | 10,187 | 3 | 0 | 1 | 112 | 6,569 | 2 | 0 | 0 | 72 |
| | | | T5S | 8,205 | 3 | 0 | 1 | 90 | 10,264 | 3 | 0 | 1 | 113 | 10,341 | 3 | 0 | 1 | 114 | 6,569 | 2 | 0 | 0 | 72 |
| | | | T5M T5W | 8,107 8,124 | 3 | 0 | 2 | 89 89 | 10,142 10,163 | 3 | 0 | 2 | 111 | 10,218 10,239 | 3 | 0 | 2 | 112 | 6,491 | 3 | 0 | 2 | 71 71 |
| | | | T1S | 10,435 | 2 | 0 | 2 | 76 | 13,054 | 3 | 0 | 3 | 95 | 13,152 | 3 | 0 | 3 | 95 | 0,504 | 1 3 | 0 | | 71 |
| | | | T2S | 10,630 | 2 | 0 | 2 | 77 | 13,297 | 3 | 0 | 3 | 96 | 13,398 | 3 | 0 | 3 | 97 |] | | | | |
| | | | T2M | 10,426 | 2 | 0 | 2 | 76 | 13,042 | 3 | 0 | 3 | 95 | 13,140 | 3 | 0 | 3 | 95 | | | | | |
| | | | T3S | 10,503 | 2 | 0 | 2 | 76 | 13,139 | 2 | 0 | 2 | 95 | 13,238 | 2 | 0 | 2 | 96 | - | | | | |
| | 1000 mA | 138 W | T3M T4M | 10,606 10,551 | 2 | 0 | 2 | 77 | 13,267 13,199 | 3 | 0 | 3 | 96 96 | 13,367 13,298 | 3 | 0 | 3 | 97 96 | - | | | | |
| | 1000 111/1 | 155 11 | TFTM | 10,430 | 2 | 0 | 3 | 76 | 13,047 | 2 | 0 | 3 | 95 | 13,146 | 2 | 0 | 3 | 95 | 1 | | | | |
| | | | T5VS | 10,881 | 3 | 0 | 1 | 79 | 13,611 | 3 | 0 | 1 | 99 | 13,714 | 4 | 0 | 1 | 99 |] | | | | |
| | | | TSS | 11,045 | 3 | 0 | 1 | 80 | 13,817 | 3 | 0 | 1 | 100 | 13,921 | 3 | 0 | 1 | 101 | | | | | |
| | | | T5M T5W | 10,914 10,936 | 4 | 0 | 2 | 79 79 | 13,652 13,680 | 4 | 0 | 2 | 99 | 13,755 | 4 | 0 | 2 | 100 | - | | | | |
| | | | עענו | טכל,טו | 4 | | | 19 | 1000,כו | 4 | U | | 37 | 13,783 | 4 | U | | 100 | <u> </u> | | | | |



| L90 and | R90 Rotat | ed Optics | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----------|-----------------|-------|--------|-------|-------------|-----|-----|--------|-------|---------|-----|-----|--------|-------|---------|------|-----|--------|---------|--------|--------|-----|
| | Drive | Carre | Dist. | | | 3 0K | | | | | 40K | | | | | 50K | | | AMBPC | | | | |
| | Current | System Watts | | | (3000 | K, 70 C | RI) | | | (4000 | K, 70 C | RI) | | | (5000 | K, 70 (| IRI) | | (Ambe | er Phos | phor C | onvert | ed) |
| | (mA) | | Туре | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW | Lumens | В | U | G | LPW |
| | | | T1S | 4,797 | 2 | 0 | 2 | 92 | 6,001 | 2 | 0 | 2 | 115 | 6,046 | 2 | 0 | 2 | 116 | 3,841 | 2 | 0 | 2 | 74 |
| | | | T2S | 4,887 | 2 | 0 | 2 | 94 | 6,113 | 2 | 0 | 2 | 118 | 6,159 | 3 | 0 | 3 | 118 | 3,912 | 2 | 0 | 2 | 75 |
| | | | T2M | 4,793 | 2 | 0 | 2 | 92 | 5,996 | 3 | 0 | 3 | 115 | 6,041 | 3 | 0 | 3 | 116 | 3,837 | 2 | 0 | 2 | 74 |
| | | | T3S | 4,829 | 2 | 0 | 2 | 93 | 6,041 | 3 | 0 | 3 | 116 | 6,086 | 3 | 0 | 3 | 117 | 3,866 | 2 | 0 | 2 | 74 |
| | | | T3M | 4,876 | 3 | 0 | 3 | 94 | 6,099 | 3 | 0 | 3 | 117 | 6,145 | 3 | 0 | 3 | 118 | 3,904 | 2 | 0 | 2 | 75 |
| | 530 mA | 52 W | T4M | 4,851 | 3 | 0 | 3 | 93 | 6,068 | 3 | 0 | 3 | 117 | 6,114 | 3 | 0 | 3 | 118 | 3,884 | 2 | 0 | 2 | 75 |
| | | | TFTM | 4,795 | 3 | 0 | 3 | 92 | 5,998 | 3 | 0 | 3 | 115 | 6,043 | 3 | 0 | 3 | 116 | 3,839 | 2 | 0 | 2 | 74 |
| | | | T5VS | 5,002 | 2 | 0 | 0 | 96 | 6,258 | 2 | 0 | 0 | 120 | 6,305 | 2 | 0 | 0 | 121 | 4,005 | 2 | 0 | 0 | 77 |
| | | | T5S | 5,078 | 2 | 0 | 0 | 98 | 6,352 | 2 | 0 | 0 | 122 | 6,400 | 2 | 0 | 0 | 123 | 4,065 | 2 | 0 | 0 | 78 |
| | | | T5M | 5,017 | 3 | 0 | 1 | 96 | 6,276 | 3 | 0 | 1 | 121 | 6,324 | 3 | 0 | 1 | 122 | 4,017 | 2 | 0 | 1 | 77 |
| | | | T5W | 5,028 | 3 | 0 | 1 | 97 | 6,289 | 3 | 0 | 2 | 121 | 6,337 | 3 | 0 | 2 | 122 | 4,025 | 3 | 0 | 1 | 77 |
| | | | T1S | 5,975 | 2 | 0 | 2 | 85 | 7,474 | 3 | 0 | 3 | 107 | 7,530 | 3 | 0 | 3 | 108 | 4,783 | 2 | 0 | 2 | 68 |
| | | | T2S | 6,086 | 2 | 0 | 2 | 87 | 7,614 | 3 | 0 | 3 | 109 | 7,671 | 3 | 0 | 3 | 110 | 4,873 | 2 | 0 | 2 | 70 |
| | | | T2M | 5,969 | 3 | 0 | 3 | 85 | 7,467 | 3 | 0 | 3 | 107 | 7,524 | 3 | 0 | 3 | 107 | 4,779 | 2 | 0 | 2 | 68 |
| | | | T3S | 6,014 | 3 | 0 | 3 | 86 | 7,523 | 3 | 0 | 3 | 107 | 7,580 | 3 | 0 | 3 | 108 | 4,815 | 2 | 0 | 2 | 69 |
| 30C | | | T3M | 6,072 | 3 | 0 | 3 | 87 | 7,596 | 3 | 0 | 3 | 109 | 7,654 | 3 | 0 | 3 | 109 | 4,862 | 3 | 0 | 3 | 69 |
| (30 LEDs) | 700 mA | 70 W | T4M | 6,041 | 3 | 0 | 3 | 86 | 7,557 | 3 | 0 | 3 | 108 | 7,614 | 3 | 0 | 3 | 109 | 4,837 | 3 | 0 | 3 | 69 |
| (JU LLU3) | | | TFTM | 5,972 | 3 | 0 | 3 | 85 | 7,471 | 3 | 0 | 3 | 107 | 7,527 | 3 | 0 | 3 | 108 | 4,781 | 3 | 0 | 3 | 68 |
| | | | T5VS | 6,230 | 2 | 0 | 0 | 89 | 7,793 | 3 | 0 | 0 | 111 | 7,852 | 3 | 0 | 0 | 112 | 4,988 | 2 | 0 | 0 | 71 |
| | | | T5S | 6,324 | 2 | 0 | 0 | 90 | 7,911 | 3 | 0 | 1 | 113 | 7,971 | 3 | 0 | 1 | 114 | 5,063 | 2 | 0 | 0 | 72 |
| | | | T5M | 6,249 | 3 | 0 | 1 | 89 | 7,817 | 3 | 0 | 2 | 112 | 7,876 | 3 | 0 | 2 | 113 | 5,003 | 3 | 0 | 1 | 71 |
| | | | T5W | 6,262 | 3 | 0 | 2 | 89 | 7,833 | 3 | 0 | 2 | 112 | 7,892 | 3 | 0 | 2 | 113 | 5,013 | 3 | 0 | 1 | 72 |
| | | | T1S | 7,956 | 3 | 0 | 3 | 76 | 9,952 | 3 | 0 | 3 | 96 | 10,027 | 3 | 0 | 3 | 96 | | | | | |
| | | | T2S | 8,104 | 3 | 0 | 3 | 78 | 10,138 | 3 | 0 | 3 | 97 | 10,214 | 3 | 0 | 3 | 98 | | | | | |
| | | | T2M | 7,949 | 3 | 0 | 3 | 76 | 9,943 | 3 | 0 | 3 | 96 | 10,018 | 3 | 0 | 3 | 96 | | | | | |
| | | | T3S | 8,008 | 3 | 0 | 3 | 77 | 10,018 | 3 | 0 | 3 | 96 | 10,093 | 3 | 0 | 3 | 97 | | | | | |
| | | | T3M | 8,086 | 3 | 0 | 3 | 78 | 10,115 | 4 | 0 | 4 | 97 | 10,191 | 4 | 0 | 4 | 98 | | | | | |
| | 1000 mA | 104 W | T4M | 8,044 | 3 | 0 | 3 | 77 | 10,063 | 3 | 0 | 3 | 97 | 10,139 | 3 | 0 | 3 | 97 | | | | | |
| | | | TFTM | 7,952 | 3 | 0 | 3 | 76 | 9,948 | 3 | 0 | 3 | 96 | 10,022 | 4 | 0 | 4 | 96 | | | | | |
| | | | T5VS | 8,296 | 3 | 0 | 0 | 80 | 10,377 | 3 | 0 | 1 | 100 | 10,455 | 3 | 0 | 1 | 101 | | | | | |
| | | | T5S | 8,421 | 3 | 0 | 1 | 81 | 10,534 | 3 | 0 | 1 | 101 | 10,613 | 3 | 0 | 1 | 102 | | | | | |
| | | | T5M | 8,321 | 3 | 0 | 2 | 80 | 10,409 | 4 | 0 | 2 | 100 | 10,487 | 4 | 0 | 2 | 101 | | | | | |
| | | | T5W | 8,338 | 4 | 0 | 2 | 80 | 10,430 | 4 | 0 | 2 | 100 | 10,509 | 4 | 0 | 2 | 101 | | | | | |

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.8 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000 K (70 minimum CRI) or optional 3000 K (80 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly $^{\rm IM}$ product, meaning it is consistent with the LEED® and Green Globes $^{\rm IM}$ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of

100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERISTM series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.













Specifications

Luminaire

Height:

7-1/4" (18.4 cm)

Width: 16-1/4"

Depth: 9-1/8" (23.2 cm)

Weight: 17 lbs (7.7 kg)



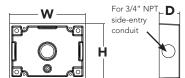
Optional Back Box (BBW)

Height: 4'

(10.2 cm)

Width: 5-1/2" (14.0 cm)

Depth: 1-1/2"



Catalog Number

Introduction

Туре

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

| WST LED | | | | | | | | | | | | |
|---------|---|-----|--|-------------------|-----------------|---|---------|--|---|--|--|--|
| Series | Light Engines | | Performance Package | Distrik | oution | Voltage | Mountin | g | Options | 3 | Finish (requ | ired) |
| WST LED | 1 One engi (10 LEDs 2 Two eng (20 LEDs | nes | 700 mA opti 10A700/30K 10A700/40K 10A700/50K | SR2 SR3 SR4 | Type II Type IV | MVOLT 1 120 1 208 1 240 1 277 1 347 480 | (blank) | d included Surface mount d separately ² Surface-mounted back box Uptilt 5 degrees | PE SF DF DMG ELCW WLU PIR DS | d installed Photoelectric cell, button type 4,5 Single fuse (120, 277, 347V) 4 Double fuse (208, 240, 480V) 4 0-10V dimming driver (no controls) Emergency battery backup 6 Wet location door for up orientation 7 Motion/ambient light sensor 8 Dual switching 9 d separately Vandal guard Wire guard | DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DSSTXD | Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum Textured white Textured sandstone |

Emergency Battery Operation

The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

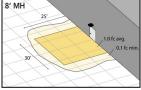
All ELCW configurations include an independent secondary driver with an integral relay to immediately detect AC power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA $70/NEC\ 2008\ -\ 700.16$

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in

3. .,

WST LED 1 10A700/40K SR4 MVOLT ELCW 10' x 10' Gridlines 8' and 12' Mounting Height





NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (PE), fusing (SF, DF), or dual switching (DS).
- 2 May also be ordered separately as an accessory. Ex: WSBBW DDBXD U. Must specify finish.
- Must be ordered with fixture; cannot be field installed.
- 4 Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 5 Not available with 480V option. Not available with motion/ambient light sensor (PIR).
- 6 Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3-year period. Not available with 347V or 480V. Not available with WLU.
- 7 WLU not available with PIR or ELCW.
- 8 Specifies the SensorSwitch SFOD-7-ODP control (photocell included); see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with WLU, VG or WG.
- 9 Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with one engine, MVOLT, ELCW, WLU, SF, or DF. Must specify voltage; voltage must be the same for both drivers. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.



Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

| Light | Drive Current | Performance Package | System Watts | Dist. | 40K (4000K, 70 CRI) | | | | | | | | |
|----------------|------------------|------------------------|-----------------|-------|------------------------|---|---|---|-----|--|--|--|--|
| Engines | (mA) | Package | (MVOLT¹) | Туре | Nominal Lumens | В | U | G | LPW | | | | |
| | | | | SR2 | 2,005 | 1 | 0 | 1 | 84 | | | | |
| (10 LED-) | 700 | 10A700/K | 24W | SR3 | 2,029 | 1 | 0 | 1 | 84 | | | | |
| (10 LEDs) | | | | SR4 | 1,959 | 1 | 0 | 1 | 82 | | | | |
| 2 | | | | SR2 | 3,944 | 1 | 0 | 1 | 84 | | | | |
| 2 (20 LEDs) | 700 | 10A700/K | 47W | SR3 | 4,028 | 1 | 0 | 1 | 86 | | | | |
| (20 LEDS) | | | | SR4 | 3,851 | 1 | 0 | 1 | 82 | | | | |

¹ See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0.40°C (32-104°F).

| Amb | ient | Lumen Multiplier |
|------|-------|------------------|
| 0°C | 32°F | 1.10 |
| 10°C | 50°F | 1.06 |
| 20°C | 68°F | 1.02 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.98 |
| 40°C | 104°F | 0.92 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WST LED 2 10A700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|-----------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.94 | 0.88 | 0.77 |

Electrical Load

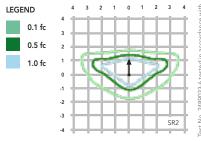
| | | | | | Curre | nt (A) | | |
|------------------|-----------------------|-----------------|------|------|-------|--------|------|------|
| Light Engines | Drive Current (mA) | System Watts | 120 | 208 | 240 | 277 | 347 | 480 |
| 1 | 700 | 24W | 0.24 | 0.14 | 0.12 | 0.1 | - | - |
| ' | 700 | 29W1 | - | - | - | - | 0.09 | 0.07 |
| | 700 | 47W | 0.44 | 0.27 | 0.23 | 0.20 | - | - |
| 2 | 700 | 53W1 | - | - | - | - | 0.17 | 0.12 |

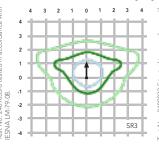
¹ Higher wattage is due to electrical losses from step-down transformer.

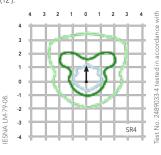
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

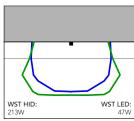
Isofootcandle plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12').











Distribution overlay comparison to 175W metal halide

WST LED 2 10A700 40K SR4, WST 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms and conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.







MECHANICAL YARD/WASTE

Catalog Number

Notes

Type S21

Introduction

The popular TWS luminaire is now available with long-lasting, energy-efficient LED technology. Featuring a classic dayform, the TWS LED offers a traditional appearance and is powered by advanced LEDs.

The TWS LED luminaire is powerful yet energy efficient, capable of replacing up to a 70W HPS wall pack while saving up to 78% in energy costs. With long-life LEDs, the TWS LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

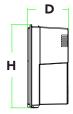
Specifications

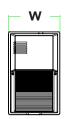
Width: 6-3/4" (17.2 cm)
Height: 10-7/8"

Height: 10-7/8" (27.7 cm)

Depth: 5-5/16" (13.5 cm)

Weight: 3.19 lbs (1.45 kg)





Ordering Information

EXAMPLE: TWS LED 1 50K 120 PE

| TWS LED | | | | | |
|-----------|---------------------|-------------------------|-------------------|------------------------------------|---------------------|
| Series | Performance Package | Color Temperature | Voltage | Control Options | Finish |
| (TWS LED) | 1 1017 lumens | 50K) 5000K ¹ | 120V ² | PE Photoelectric cell, button type | (blank) Dark bronze |

Accessories

Ordered and shipped separately.

TWSWG Wire Guard

FEATURES & SPECIFICATIONS

INTENDED USE

The TWS LED combines traditional wall pack design with high-output LEDs to provide an energy-efficient, low maintenance LED wall pack suitable for replacing up to 70W HPS fixtures. The traditional shape helps maintain building aesthetics when replacing only a portion of your building's wall packs. TWS LED is for outdoor applications such as personnel doors, loading areas, driveways and parking areas.

CONSTRUCTION

Back plate is die-cast aluminum. Front cover is impact-resistant polycarbonate which is fully gasketed. All electronics are protected in the upper housing. Housing is sealed against moisture and environmental contaminants.

FINISH

UV stabilized polycarbonate front cover has dark bronze color which provides superior resistance to corrosion and weathering and that can withstand extreme climate changes without cracking or peeling.

OPTICS

Protective polycarbonate lens covers the LEDs. Prismatic front cover and precision-molded reflector for superior uniformity and fixture spacing. Light engine is available in 5000K (69 min. CRI).

NOTES

- Corrected color temperature (CCT) shown is nominal per ANSI C78, 377-2008.
- 2. 120V driver operates on 120V.

ELECTRICA

Light engine consists of two high-powered, long-life, high-efficacy LEDs mounted on an internal aluminum heat sink to maximize heat dissipation and promote long life (L95/100,000 hours at 40°C). Driver and integral photocell operate at 120V and are fully enclosed in the upper housing. There are no user serviceable parts.

INSTALLATION

Back housing easily mounts to any recessed junction box. With all electronics in upper housing the open lower section makes wiring easy. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with polycarbonate lens.

LISTINGS

UL Certified to US and Canadian safety standards for wet-location mounting higher than 4 feet off the ground.

Rated for -40°C to 40°C ambient temperature.

WARRANTY

Five-year limited warranty. Full warranty terms located at www.acuitybrands.com/ CustomerResources/Terms_and_conditions.aspx.

Note: Specifications are subject to change without notice. Actual performance may differ as a result of end-user environment and application



Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of enduser environment and application.

| Performance Package | Drive Current CCT (mA) | ССТ | System Watts | 50K (5000K, 67 CRI) | | | | |
|------------------------|------------------------------|-------|-----------------|------------------------|---|---|---|-----|
| | | | | Lumens | В | U | G | LPW |
| 1 | 900 | 5000K | 19W | 1,017 | 1 | 3 | 1 | 54 |

Electrical Load

| | | | Current (A) | | | |
|----------------|-----------------------|-----------------|-------------|------|------|------|
| LED Package | Drive Current (mA) | System Watts | 120 | 208 | 240 | 277 |
| 1 | 1000 | 19W | 0.20 | 0.12 | 0.10 | 0.09 |

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Amb | Lumen Multiplier | | |
|------|------------------|------|--|
| 0°C | 32°F | 1.03 | |
| 10°C | 50°F | 1.02 | |
| 20°C | 68°F | 1.01 | |
| 25°C | 77°F | 1.00 | |
| 30°C | 86°F | 0.99 | |
| 40°C | 104°F | 0.98 | |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a **40°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

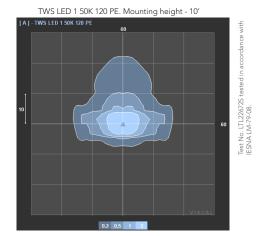
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 55,000 | 100,000 |
|-----------------------------|-----|--------|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.98 | 0.97 | 0.97 | 0.95 |

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWS LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards





Lighting Facts Labels

